

BELLCOMM. INC.

SUBJECT: LEM Ground Support Equipment  
Critical Design Review, March 21-25,  
1966, MSC, Houston, Texas  
Case 330

DATE: March 31, 1966

FROM: V. Muller

MEMORANDUM FOR FILE

During March 21-25, 1966, MSC reviewed the LEM GSE in preparation for the ASPO/GAEC Review Board of March 31, at GAEC.

This preview was summed up on March 25 with K. L. Nelson chairing the MSC Working Groups, and V. Muller attending. The working groups had been organized according to five major systems:

1. Radar, Communications, Instrumentation
2. Checkout
3. Electrical
4. ECS and Crew
5. Propulsion.

The review consisted of examining a set of GAEC Request for Changes (RFC's) and in identifying the interface requirements for the LEM systems with the GSE. Working groups No. 1-3 reported inadequate documentation to an extent which made review practically impossible; groups No. 4 and 5 reported better data availability, although basic information was still missing.

In summary, the GSE problems are:

1. Good baseline documentation for GSE evaluation at MSC is non-existent. The formerly used GORP (Ground Operations Requirements Plan) is outdated (September, 1965) and the depth of information is inadequate.
2. GSE requirements have to be further specified by LEM-GSE, GSE-GSE, and intra-GSE interface requirements.



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3. GAEC GSE ICD generation is incomplete and does not reflect current state of the airborne equipment.
4. Uncertainties exist in:
  - a. definition of interface, airborne equipment or GSE requirements
  - b. performance of tests on redundant equipment
  - c. test requirements for onboard experiment equipment.

The review was scheduled for continuation during March 28-31, 1966, at GAEC.

  
V. Muller

2031-VM-sam

Copy to

Messrs. T.A. Keegan - NASA/MA-2  
R. V. Murad - NASA/MAT  
M. Savage - NASA/MAT

C. Bidgood  
J. A. Hornbeck  
B. T. Howard  
C. A. Lovell  
J. Z. Menard  
C. R. Moster  
T. L. Powers  
I. M. Ross  
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